## Amendments to the claims:

This listing of claims replaces all prior versions, and listings, of claims in the application.

## Listing of claims:

## Claims 1-11 (cancelled)

- 12 (withdrawn): A chromatographic composite material comprising a support at least partially covered by a hydrophobic polymer containing fluorine moieties obtainable by a process comprising the steps of
  - contacting a support with a cross-linkable compound having at least one olefinic double bond
     until the support at its surface is at least partially covered with the cross-linkable compound,
     followed by
  - fluorination of the support at least partially covered with the cross-linkable compound,
  - removal of unreacted material, if any, and
  - recovering said composite material.

- 13 (withdrawn): A chromatographic composite material for separation of DNA and RNA from proteins and other substances comprising a support at least partially covered by a hydrophobic polymer containing fluorine moieties obtainable by a process comprising the steps of
  - contacting a support with a cross-linkable compound having at least one olefinic double bond
    until the support at its surface is at least partially covered with the cross-linkable compound,
    followed by
  - fluorination of the support at least partially covered with the cross-linkable compound,
  - removal of unreacted material, if any, and
  - recovering said composite material in preparative or analytical scale,
    wherein the composite material specifically binds the proteins and other substances but
    specifically does not bind the DNA and RNA.
- 14 (withdrawn): The composite material according to claim 12, wherein the support is comprised of a porous inorganic metal oxide.
- 15 (withdrawn): The composite material according to claim 14, wherein said inorganic metal oxide is selected from the group consisting of oxides of aluminum, titanium, zirconium, silicon, and iron and mixtures thereof.

- 16 (withdrawn): The composite material according to claim 12, wherein said cross-linkable compound is an oligomer of a substituted or unsubstituted diene.
- 17 (withdrawn): The composite material according to claim 16, wherein said oligomer is selected from the group consisting of C<sub>4</sub>-C<sub>10</sub> olefinic dienes.
- 18 (withdrawn): The composite material according to claim 16, wherein the oligomer is butadiene, isoprene, chloroprene, or piperilene or a mixture thereof.
- 19 (withdrawn): The composite material of claim 16, wherein the averaged molecular weight of the oligomer is in the range of from 2 kD to 300 kD.
- 20 (withdrawn): The composite material according to claim 12, wherein the fluorination is performed with XeF<sub>2</sub> or a mixture of fluorine and nitrogen, or XeF<sub>2</sub> and a mixture of fluorine and nitrogen.
- 21 (withdrawn): A chromatographic column or cartridge at least partially filled with the composite material according to claim 12.

- 22 (withdrawn): A microporous filter material comprising the composite material according to claim 12 embedded in a polymeric matrix.
- 23 (withdrawn): The microporous filter material according to claim 22, wherein said polymeric matrix is a nylon membrane.
- 24 (withdrawn): The composite material according to claim 12 in bulk form for performing fast sample preparations or chromatographic separations of DNA.
- 25 (withdrawn): The composite material according to claim 24, for conducting the separation of DNA from other substances in one step.
- 26 (withdrawn): An item containing the composite material according to claim 12 wherein the item is a chromatographic column or cartridge or a microporous filter material.
- 27 (withdrawn): The item material according to claim 26, in combination with filter materials, reagents and/or buffers, chemicals and/or other devices for performing fast sample preparations or chromatographic separations of DNA and RNA.

- 28 (currently amended): A method of chromatographic separation comprising applying a source of DNA, RNA, proteins, and the other substances to a chromatographic composite material that specifically binds the proteins and other substances but specifically does not bind the DNA and RNA, wherein the composite material comprises a support at least partially covered by a hydrophobic polymer containing fluorine moieties obtainable by a process comprising the steps of
  - contacting a support with a cross-linkable compound having at least one olefinic double bond
     until the support at its surface is at least partially covered with the cross-linkable compound,
     followed by
  - fluorination of the support at least partially covered with the cross-linkable compound,
  - removal of unreacted material, if any, and
  - recovering said composite material in preparative or analytical scale.
- 29 (previously presented): The method of claim 28, wherein separation of DNA and RNA from proteins and other substances is conducted in one step.

Claims 30 and 31 (cancelled).

32 (new): A method of chromatographic separation comprising, in the absence of chaotropic substances, applying a source of DNA, RNA, proteins, and other substances to a

chromatographic composite material that specifically binds the proteins and other substances but specifically does not bind the DNA and RNA, wherein the composite material comprises a support at least partially covered by a hydrophobic polymer containing fluorine moieties obtainable by a process comprising the steps of

- contacting a support with a cross-linkable compound having at least one olefinic double bond
  until the support at its surface is at least partially covered with the cross-linkable compound,
  followed by
- fluorination of the support at least partially covered with the cross-linkable compound,
- removal of unreacted material, if any, and
- recovering said composite material in preparative or analytical scale.
- 33 (new): The method of claim 32, wherein separation of DNA and RNA from proteins and other substances is conducted in one step.